## IN THE CLAIMS:

Please cancel claims 1-9 and 25-30.

Please amend claims 10, 14, 16, 17, 19, 20 and 21 as follows

- 1 1. (Canceled) A system for rendering graphics primitives using a shortened display list for
- 2 ensuring a shortened processing time while maintaining the quality of the display information
- 3 contained in the display list, the system comprising:
- 4 a system bus for communicating data and instructions;
- 5 a host processor coupled to the system bus for processing a display list defining a
- 6 graphics primitive;
- 7 a system memory coupled to the system bus for storing the display list;
- 8 a graphics subsystem coupled to the system bus for processing display parameter values
- 9 contained in the display list, wherein the display list includes a field load
- instruction for effectively shortening display list processing; and
- '11 a display unit coupled to the graphics processor for displaying the graphics primitives
- 12 comprising the display list.
  - 1 2. (Canceled) The system of claim 1 further including a frame buffer coupled to the
  - 2 graphics processor for storing the display list.
  - 1 3. (Canceled) The system of claim 1, wherein the graphics subsystem includes a plurality of
  - 2 storage means for storing the parameter values representative of the graphics primitives in the
  - 3 display list.

- 1 4. (Canceled) The system of claim 3, wherein the graphics subsystem further includes a
- 2 address generating means for generating address offsets bits responsive to the display parameter
- 3 values contained in the display list.
- 1 5. (Canceled) The system of claim 4, wherein the graphics subsystem further includes an
- 2 instruction storing means for storing a plurality of instruction data bits responsive to each of the
- 3 plurality of display list instructions, said instruction data bits shortened to allow the display list
- 4 to be processed within a shortened processing cycle in the graphics subsystem.
- 1 6. (Canceled) The system of claim 5, wherein the graphics subsystem further includes an
- 2 instruction sequencing means coupled to the instruction bits storage means for sequencing bits of
- 3 the display list into a plurality of register files.
- 1 7. (Canceled) The system of claim 6, wherein the graphics subsystem further includes an
- 2 instruction fetch means for randomly fetching a next display list parameter value for a display
- 3 primitive to be processed in the graphics subsystem.
- 1 8. (Canceled) The system of claim 7, wherein the graphics subsystem further includes an
- 2 address counting means for sequentially counting the address storage locations for the display list
- 3 parameter values of the graphics primitives stored in the plurality of register files.
- 1 9. (Canceled) The system of claim 8, wherein the graphics subsystem further includes an
- 2 address partition storage means for storing addresses responsive to load instructions representing
- 3 the shortened display list, and wherein portions of the instruction storing means index the address
- 4 partition storage means.

(Amended) A graphics system for processing parameter values of graphics primitives in 1 10. 2 a display list, wherein the display list is shortened to enable fast processing time while 3 maintaining the quality of information contained in the display list, the graphics system 4 comprising: 5 a plurality of register files for storing a plurality of parameter values representing 6 graphics primitives defined in the display list; and 7 a graphics processor coupled to the plurality of register files, wherein the graphics processor processes the shortened display list while maintaining the display 8 9 quality of primitives displayed in a display unit, the graphics processor processing 10 load instructions representative of a shortened display list instruction including 11 the fetching of parameters associated with the shortened display list instruction

1 11. (Unchanged) The graphics processor of claim 10 including an instruction fetch logic unit

and storing fetched parameters randomly in the plurality of register files.

- 2 for fetching the next parameter values responsive to a graphics primitive to be displayed.
- 1 12. (Unchanged) The graphics processor of claim 11 further including a load instruction unit
- 2 for storing load instructions representative of a shortened display list instruction, said load
- 3 instruction comprising a plurality of data bits each of said plurality of data bits representing
- 4 specific load functions to be performed by the load instruction.

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- 1 13. (Unchanged) The graphics processor of claim 12, wherein the load instruction unit
- 2 includes an opcode storage unit for storing opcode information responsive to each of the load

- 3 instructions for determining the type of function to be performed by the graphics primitive to be 4 rendered. (Amended) The graphics processor of claim 13, wherein the load instruction unit further 14. includes a write enable storage vortion for storing write enable data for determining whether to load one of the plurality of [registers in the] register files. 3 (Unchanged) The graphics processor of claim 14, wherein the load instruction unit 1 15. further includes an instruction partition portion for storing partition data for referencing the 2 partition table to load parameter values to the referenced register. 3 (Amended) The graphics processor of claim [10] 12 further comprising a data shifter 1 16. coupled to the load instruction unit for sequentially shifting data bits corresponding to a load 2 instruction in order to write the load instructions to the register files. 3 (Amended) The graphics processor of claim 16 further comprising an address counter 1 17. coupled to the register files for sequentially counting [the] address offsets of the register files 2 locations as the load instruction data is loaded into the register files. 3 (Unchanged) The graphics processor of claim 17 further comprising a partition table 1 18. coupled to the load instruction unit for storing the address offset bits corresponding to random 2 register locations in the register files for the display parameter values in the display list. 3
- 1 19. (Amended) The graphics processor of claim 18 further comprising a write enable signal coupled to [the] an address bit shifter, said write enable signal asserted high to allow the graphics

- 3 processor to write the load instructions to the register files, wherein the write enable signal
- 4 enables the graphics processor to randomly load register locations in the register file.
- 1 20. (Unchanged) The graphics processor of claim 19 further comprising a request next
- 2 parameter value signal coupled to the fetch logic unit, said request next parameter signal asserted
- 3 high to allow the next parameter value in the display list to be fetched by the graphics processor.

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- 1 21. (Amended) The graphics processor of claim 20 wherein the partition [look-up] table
- 2 comprises 64 entries of address offsets to the register file.
- 1 22. (Unchanged) The graphics processor of claim 21 wherein the 64 entries of the partition
- 2 table are evenly distributed to corresponding register locations in the register file.
- 1 23. (Unchanged) The graphics processor of claim 22 wherein each of the 64 entries of the
- 2 partition table is 6 binary wide.
- 1 24. (Unchanged) The graphics processor of claim 23 wherein the register file comprises
- 2 1024 entries of addresses.
- 1 25. (Canceled) A method of encoding and decoding a shortened display list load instruction
- 2 comprising the steps of:
- 3 encoding a field load instruction wherein the field load instruction comprises an opcode
- 4 instruction, a write enable field and a partition index field;
- 5 loading the field load instruction to a register file; and
- 6 executing the field load instruction in a shortened processing time.

- 1 26. (Canceled) The method of claim 25 wherein the field load instruction execution step
- 2 comprises the step of enabling the write enable field to allow the load instruction to be randomly
- 3 load to the register file.
- 1 27. (Canceled) The method of claim 25 wherein the loading step comprises the step of
- 2 loading a shift register with write enable data from the field load instruction.
- 1 28. (Canceled) The method of claim 27 wherein the instruction loading step further
- 2 comprises the step of indexing a partition look-up table with write enable data from the write
- 3 enable field.
- 1 29. (Canceled) The method of claim 27 wherein the instruction loading step further includes
- 2 loading an address counter to sequentially count the number of load instructions in the display
- 3 list.
- 1 30. (Canceled) The method of claim 29 wherein the write enable field is disabled to skip the
- 2 loading of a register in the register file.